

## **ABSTRACT OF THE DISCLOSURE**

The present invention is directed to apparatus and method for forming balloons with improved dimensional stability and balloons formed by the same. The method of the present invention provides for a very accurate control of the temperature profile of the balloon material during its making.

The attributes of the balloon can be affected by how the balloon is treated during the blowing stage and after the initial blowing, i.e., heat-setting.

Using the present method, the balloon will form more uniformly and evenly (e.g., wall thickness and outer diameter of the balloon). The present method significantly increases the dimensional stability of the balloon which provides a balloon that is more predictable in use. The present heat-set process also provides the means for the working length to be located more accurately on dilation catheters and stent delivery systems.

197808 v04.PA (48M\_04I.DOC)